



**Global and China Supercapacitor Industry  
Report, 2019-2025**

**May 2019**

## **STUDY GOAL AND OBJECTIVES**

This report provides the industry executives with strategically significant competitor information, analysis, insight and projection on the competitive pattern and key companies in the industry, crucial to the development and implementation of effective business, marketing and R&D programs.

## **REPORT OBJECTIVES**

- ◆ To establish a comprehensive, factual, annually updated and cost-effective information base on market size, competition patterns, market segments, goals and strategies of the leading players in the market, reviews and forecasts.
- ◆ To assist potential market entrants in evaluating prospective acquisition and joint venture candidates.
- ◆ To complement the organizations' internal competitor information gathering efforts with strategic analysis, data interpretation and insight.
- ◆ To suggest for concerned investors in line with the current development of this industry as well as the development tendency.
- ◆ To help company to succeed in a competitive market, and

## **METHODOLOGY**

Both primary and secondary research methodologies were used in preparing this study. Initially, a comprehensive and exhaustive search of the literature on this industry was conducted. These sources included related books and journals, trade literature, marketing literature, other product/promotional literature, annual reports, security analyst reports, and other publications. Subsequently, telephone interviews or email correspondence was conducted with marketing executives etc. Other sources included related magazines, academics, and consulting companies.

## **INFORMATION SOURCES**

The primary information sources include Company Reports, and National Bureau of Statistics of China etc.

## Abstract

Finding a higher penetration in transportation and consumer electronics, the global market size of supercapacitors has mushroomed, especially Asia-Pacific Region sees the highest growth rate. The global supercapacitor market valued USD1.01 billion in 2018, and it is expected to garner USD4.09 billion by 2025, with a CAGR of 22.1%. In the upcoming five years, supercapacitors will be largely utilized in transportation and consumer electronics. From a geographical perspective, Asia-Pacific consumed the most supercapacitors worldwide in 2018, and the consumption herein will increase at the highest rate in the next few years.

Supercapacitors were initially used by the US military in the field of electronic equipment due to instantaneous high power, fast charging and discharging. Later, it finds wider application in transportation, industrial equipment, electric power, and new energy. 38% of the supercapacitor market size is forecast to be triggered by transportation, about 30% by the industrial sector, and 21% by the new energy sector.

As far as competition is concerned, many countries in the world are aggressively developing supercapacitors. The main players include: MAXWELL (Tesla planned to pay a 55% premium to acquire Maxwell in February 2019) and Ioxus based in the United States, Japan-based ELNA and Panasonic, South Korea-based LS Mtron and Vina Technology. At present, foreign companies take a leading position and sweep most of the global market. Japan, the United States and Europe have prioritized supercapacitors as a national key research and development project. The United States' USMSC program, Japan's NewSunshine program and Europe's PNGU program involves the development of supercapacitors.

Chinese supercapacitor enterprises consist mainly of Jinzhou Kaimei Power, Beijing Supreme Power Systems, Shenzhen TIG Technology, Shanghai Aowei, Nantong Jianghai Capacitor, etc. Jinzhou Kaimei Power, the largest professional supercapacitor manufacturer in China, mainly produces button-type and coiled supercapacitors, some of which are exported to Europe, America, Japan and South Korea. Beijing Supreme Power Systems, founded in Nanocarbon Material R&D Laboratory of Tsinghua University in 2002, can produce large coiled supercapacitors. The company has broken through the core activated carbon technology and electrode technology, integrated the upstream and downstream of the supercapacitor industry chain, and established production bases in Beijing and Changzhou for electrode materials, electrodes, components and energy storage systems; Shanghai Aowei's supercapacitors are mainly for automotive use.

## Global Supercapacitor Market Size and Growth Rate, 2017-2025



Source: Global and China Supercapacitor Industry Report, 2019-2025 May 2019

Nantong Jianghai Capacitor has delved in the aluminum electrolytic capacitor industry for decades, strategically developed film capacitors and supercapacitors in recent years, and the technical performance of its lithium ion supercapacitors has reached the international advanced level.

Global and China Supercapacitor Industry Report, 2019-2025 by ResearchInChina focuses on the following:

- Overview of supercapacitor industry, including definition, classification, industry chain and related technology roadmap;
- Global supercapacitor industry (market size, competitive landscape, development prospect, etc.);
- China's supercapacitor industry (market size, competitive landscape, development prospect, etc.);
- The market of supercapacitor upstream raw materials;
- Major capacitor application markets, including industry, transportation, and new energy;
- Operating performance, main products, production layout, output, sales volume, development strategy, etc. of 18 supercapacitor vendors such as Maxwell, Ioxus, Panasonic, ELNA.

### **1 Overview of Supercapacitor**

- 1.1 Definition and Property
- 1.2 Classification
- 1.3 Application

### **2 Global Supercapacitor Market**

- 2.1 Development History
- 2.2 Market Size
- 2.3 Competitive Landscape
- 2.4 Development Prospects
  - 2.4.1 Improve Performance and Reduce Costs
  - 2.4.2 Stable Price; High Capacity and High Power Become Main Orientation

### **3 Chinese Supercapacitor Market**

- 3.1 Development History
- 3.2 Industrial Policy
- 3.3 Market Size
- 3.4 Competitive Landscape
- 3.5 Development Trends

### **4 Upstream Raw Materials Market**

- 4.1 Electrode Material
  - 4.1.1 Overview
  - 4.1.2 Development Trend
- 4.2 Electrolyte

### **5 Downstream Application Market**

- 5.1 Industrial
- 5.2 Transportation
  - 5.2.1 New Energy Vehicle
- 5.3 Renewable Energy

### **6 Major Global Supercapacitor Companies**

- 6.1 Maxwell
  - 6.1.1 Profile
  - 6.1.2 Production Bases
  - 6.1.3 Products, Technologies, and Solutions
  - 6.1.4 Supercapacitor Business
  - 6.1.5 Dynamics
  - 6.1.6 Layout in China
  - 6.1.7 Operation Data
- 6.2 Ioxus
  - 6.2.1 Profile
  - 6.2.2 Production Bases
  - 6.2.3 Supercapacitor Business
- 6.3 Nesscap
  - 6.3.1 Profile
  - 6.3.2 Development History and Prospects
  - 6.3.3 Production Bases
  - 6.3.4 Supercapacitor Business
  - 6.3.5 Layout in China
  - 6.3.6 Operation Data

- 6.4 Panasonic
  - 6.4.1 Profile
  - 6.4.2 Supercapacitor Business
  - 6.4.3 Layout in China
  - 6.4.4 Operation Data
- 6.5 ELNA
  - 6.5.1 Profile
  - 6.5.2 Supercapacitor Business
  - 6.5.3 Layout in China
  - 6.5.4 Operation Data

### **7 Major Chinese Supercapacitor Companies**

- 7.1 Nantong Jianghai Capacitor Co., Ltd.
  - 7.1.1 Profile
  - 7.1.2 Industrial Layout
  - 7.1.3 Development History
  - 7.1.4 Products, Technologies, and Solutions
  - 7.1.5 Customers
  - 7.1.6 Output and Sales of Products
  - 7.1.7 Core Competence
  - 7.1.8 Operation Data
- 7.2 TIG Technology Co., Ltd.
  - 7.2.1 Profile
  - 7.2.2 Products, Technologies, and Solutions
  - 7.2.3 Suppliers
  - 7.2.4 Customers
  - 7.2.5 Output and Sales of Products

- 7.2.6 Operation Data
- 7.3 Man Yue Technology Holdings Limited
  - 7.3.1 Profile
  - 7.3.2 Industrial Layout
  - 7.3.3 Development History
  - 7.3.4 Products, Technologies, and Solutions
  - 7.3.5 Output and Sales of Products
  - 7.3.6 Core Competence
  - 7.3.7 Operation Data
- 7.4 Shanghai Aowei Technology Development Co., Ltd.
  - 7.4.1 Profile
  - 7.4.2 Development History
  - 7.4.3 Products, Technologies, and Solutions
  - 7.4.4 Customers
  - 7.4.5 Output and Sales of Products
  - 7.4.6 Operation Data
- 7.5 Harbin Jurong New Power Co., Ltd.
  - 7.5.1 Profile
  - 7.5.2 Products, Technologies, and Solutions
  - 7.5.3 Customers
  - 7.5.4 Supercapacitor Business
- 7.6 Supreme Power Solutions Co., Ltd.
  - 7.6.1 Profile
  - 7.6.2 Industrial Layout
  - 7.6.3 Products, Technologies, and Solutions
  - 7.6.4 Customers
  - 7.6.5 Output and Sales of Products

- 7.6.6 Core Competence
- 7.7 Bainacap Supercapacitors Co., Ltd.
  - 7.7.1 Profile
  - 7.7.2 Industrial Layout
  - 7.7.3 Supercapacitor Business
- 7.8 Beijing HCC Energy Tech. Co., Ltd.
  - 7.8.1 Profile
  - 7.8.2 Industrial Layout
  - 7.8.3 Development History
  - 7.8.4 Supercapacitor Business
- 7.9 Jinzhou Kaimei Power Co., Ltd.
  - 7.9.1 Profile
  - 7.9.2 Industrial Layout
  - 7.9.3 Supercapacitor Business
- 7.10 CAMA Jiahua (Luoyang) New Energy Co., Ltd.
  - 7.10.1 Profile
  - 7.10.2 Supercapacitor Business
- 7.11 Other Players
  - 7.11.1 Jiangsu Shuangdeng Group Co., Ltd.
  - 7.11.2 Anhui Tongfeng Electronics Co. Ltd.
  - 7.11.3 Shenzhen Haoningda Meters Co., Ltd.



- Operating Principle of Supercapacitor
- Comparison between Supercapacitor, Lithium Battery, and Fuel Cell
- Comparison of Performance Parameters between Energy Storage Technologies
- Classification of Supercapacitors (by Electrode Materials)
- Applications of Supercapacitor
- Global Supercapacitor Market Size and Growth Rate, 2011-2025E
- Global Supercapacitor Consumption Structure, 2018&2025E
- Major Supercapacitor Companies Worldwide, 2018
- Policies on Supercapacitor Industry in China
- Chinese Supercapacitor Market Size and Growth Rate, 2016-2025
- Major Supercapacitor Enterprises in China, 2018
- Supercapacitor-related Listed Companies and Their Business, 2018
- Supercapacitor Structure Chart
- Comparison between Electrode Materials for Supercapacitor
- Global Demand for Supercapacitors from Industrial Use, 2016-2025E
- Changes in New Energy Vehicle Subsidy Policy
- Power System Requirements and Supercapacitor Performance in Public Transport and Park Logistics
- Supercapacitors Enhance Automotive Start-Stop Systems
- Global Demand for Supercapacitors from Transportation, 2015-2025E
- Global Electric Passenger Car (EV&PHEV) Sales, 2016-2025E
- Global Electric Vehicle Sales, 2016-2025E
- China's Electric Passenger Car (EV&PHEV) Sales, 2011-2025E
- China's Share of Global Electric Passenger Car Sales, 2011-2025E
- Some New Energy Bus Companies in China Use Supercapacitors for Energy Storage
- Working Principle of Supercapacitor-based Hybrid System
- Power Batteries for New Energy Vehicles in China (by Type), 2018
- Companies of Supercapacitor for New Energy Vehicles in China, 2018
- Development of Supercapacitor Buses in China

Industrial Layout of Maxwell  
Advantages of Maxwell Supercapacitor (Compared with Battery)  
Maxwell's Revenue from Supercapacitor and % of Total Revenue, 2013-2018  
New Progress of Maxwell's Capacitor Business  
Maxwell's Revenue in China, 2013-2018  
Maxwell's Authorized Integrators and Distributors in China  
Revenue and Net Income of Maxwell, 2013-2018  
Revenue Structure of Maxwell by Product, 2013-2018  
Revenue Structure of Maxwell by Region, 2012-2018  
Factories and Sales Companies of NEC TOKIN in Japan  
Factories and Sales Companies of NEC TOKIN Worldwide  
Main Products and Their Applications of NEC TOKIN  
Development History of Nesscap  
Production Bases of Nesscap  
Revenue and Net Income of Nesscap, 2013-2018  
Revenue Structure of Nesscap by Region, 2013-2018  
Supercapacitor Capacity of Panasonic  
Structure of Panasonic Gold Capacitor  
Revenue and Net Income of Panasonic, 2013-2018  
Revenue Structure of Panasonic by Division, 2018  
Sales Outlets of Nantong Jianghai Capacitor in China  
Sales Outlets of Nantong Jianghai Capacitor Worldwide  
Development History of Nantong Jianghai Capacitor  
Supercapacitor Series and Their Properties of Nantong Jianghai Capacitor  
Energy Density of Nantong Jianghai Capacitor's Supercapacitors  
Applications of Nantong Jianghai Capacitor's Main Products and Major Customers  
Capacitor Output and Sales Volume of Nantong Jianghai Capacitor, 2013-2018  
Supercapacitor Development of Nantong Jianghai Capacitor

Revenue and Net Income of Nantong Jianghai Capacitor, 2013-2018  
Revenue Structure of Nantong Jianghai Capacitor by Product, 2013-2018  
Revenue Structure of Nantong Jianghai Capacitor by Region, 2013-2018  
Gross Margin of Nantong Jianghai Capacitor's Main Products, 2013-2018  
Supercapacitor Series of TIG Technology  
TIG Technology's Procurement from Top 5 Suppliers and % of Total Procurement, 2013-2018  
TIG Technology's Revenue from Top 5 Customers and % of Total Revenue, 2013-2018  
Supercapacitor Revenue of TIG Technology, 2013-2018  
Revenue and Net Income of TIG Technology, 2011-2018  
Revenue Structure of TIG Technology by Product, 2013-2018  
Gross Margin of TIG Technology, 2013-2018  
Global Distribution Network of Man Yue Technology  
Development History of Man Yue Technology  
Main Products of Man Yue Technology  
Key Production Bases of Man Yue Technology  
Revenue and Net Income of Man Yue Technology, 2013-2018  
Development History of Aowei Technology Development  
Features of Shanghai Aowei Technology Development's Supercapacitors  
Main Supercapacitors of Shanghai Aowei Technology Development  
Applications of Shanghai Aowei Technology Development's Supercapacitors  
Revenue and Profit of Aowei Technology, 2013-2018  
Supercapacitor Series of Harbin Jurong New Power  
Application Cases and Customers of Harbin Jurong New Power's Supercapacitors  
Supercapacitor Development of Harbin Jurong New Power  
Industrial Layout of Supreme Power Solutions  
Supercapacitor Series of Supreme Power Solutions

You can place your order in the following alternative ways:

1. Order online at [www.researchinchina.com](http://www.researchinchina.com)
2. Fax order sheet to us at fax number: +86 10 82601570
3. Email your order to: [report@researchinchina.com](mailto:report@researchinchina.com)
4. Phone us at +86 10 82600828

<b>Party A:</b>			
Name:			
Address:			
Contact Person:		Tel	
E-mail:		Fax	

<b>Party B:</b>			
Name:	Beijing Waterwood Technologies Co., Ltd (ResearchInChina)		
Address:	Room 801, B1, Changyuan Tiandi Building, No. 18, Suzhou Street, Haidian District, Beijing, China 100080		
Contact Person:	Liao Yan	Phone:	86-10-82600828
E-mail:	<a href="mailto:report@researchinchina.com">report@researchinchina.com</a>	Fax:	86-10-82601570
Bank details:	Beneficial Name: Beijing Waterwood Technologies Co., Ltd Bank Name: Bank of Communications, Beijing Branch Bank Address: NO.1 jinxiyuan shijicheng, Landianchang, Haidian District, Beijing Bank Account No #: 110060668012015061217 Routing No #: 332906 Bank SWIFT Code: COMMCNSHBJG		

Title	Format	Cost
<i>Total</i>		

Choose type of format

- PDF (Single user license) .....2,500 USD
- Hard copy ..... 2,700 USD
- PDF (Enterprisewide license)..... 3,900 USD

※ Reports will be dispatched immediately once full payment has been received.  
Payment may be made by wire transfer or credit card via PayPal.

### About ResearchInChina

ResearchInChina ([www.researchinchina.com](http://www.researchinchina.com)) is a leading independent provider of China business intelligence. Our research is designed to meet the diverse planning and information needs of businesses, institutions, and professional investors worldwide. Our services are used in a variety of ways, including strategic planning, product and sales forecasting, risk and sensitivity management, and as investment research.

#### Our Major Activities

- *Multi-users market reports*
- *Database-RICDB*
- *Custom Research*
- *Company Search*

**RICDB** (<http://www.researchinchina.com/data/database.html>), is a visible financial data base presented by map and graph covering global and China macroeconomic data, industry data, and company data. It has included nearly 500,000 indices (based on time series), and is continuing to update and increase. The most significant feature of this base is that the vast majority of indices (about 400,000) can be displayed in map.

After purchase of our report, you will be automatically granted to enjoy 2 weeks trial service of RICDB for free.

After trial, you can decide to become our formal member or not. We will try our best to meet your demand. For more information, please find at [www.researchinchina.com](http://www.researchinchina.com)

For any problems, please contact our service team at: